

Construction Industry Council
Committee on Construction Safety

Meeting No. 004/16 of the Committee on Construction Safety (Com-CSY) was held on Wednesday, 7 December 2016 at 2:30pm at Board Room, CIC Headquarters, 38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon.

Present:	Ada FUNG	(AF)	Chairman / Chairperson of Task Force on Site Safety of Working in Lift Shaft (TF-WLS)/ Chairperson of Task Force on Safety of Lorry-mounted Cranes (TF-LMC)
	CHAN Chi-chiu	(CCC)	
	LAI Chi-wah	(CWL <i>i</i>)	
	MO Kon-fei, Kenneth	(KM)	
	YU Sai-yen	(SY <i>Yu</i>)	
	CHAN Sau-kit, Allan	(SKC)	Chairperson of Task Force on Application of Innovative Design to Enhance Construction Safety (TF-IDS)
	CHENG Hok-chung	(CgHC)	Construction Site Workers General Union (CSWGU)
	Raymond CHEUNG	(WMC)	Development Bureau (DevB)
	CHOW Luen-kiu	(LKC)	Hong Kong Construction Industry Employees General Union (HKCIEGU)
	Victor KWONG	(VK)	Chairperson of Task Force on Site Safety Incidents (TF-SSI)
	LIU Yuk-shing	(YsLu)	Hong Kong Institution of Engineers (HKIE)
	NG Choi-wah	(NCW)	Hong Kong General Building Contractors Association (HKGBCA)
	Ronnie NG	(RNG)	Hong Kong Federation of Insurers (HKFI)
	WONG Kwok-keung	(KKW)	Hong Kong Federation of Electrical and Mechanical Contractors (HKFEMC)
	WU Wai-hung	(WHWu)	Chairperson of Task Force on Safety of Repair, Maintenance, Alterations and

	Bonnie YAU	(BYu)	Additions (RMAA) sites (TF-RMA) Occupational Safety and Health Council (OSHC)
In Attendance :	CHEUNG Tin-cheung	(TnC)	Buildings Department (BD)
	Raymond LAU	(RdL)	Buildings Department (BD)
	Timothy LAU	(TyL)	Hong Kong Housing Authority (HKHA)
	Damon LEUNG	(DnLg)	Manager - Training and Development (Management & Safety Training Centre)
	Alan Tang	(AnTg)	Government Seconded
	James WONG	(JsW)	Manager – Research & Development
	Angela YUEN	(AaY)	Senior Manager - Council Services
	Sally LEUNG	(SYLg)	Manager - Council Services
	Serina LAU	(SLau)	Assistant Manager - Council Services
Presenters:	Ivan LEUNG	(ILg)	Hong Kong R&D Centre for Logistics and Supply Chain Management Enabling Technologies (LSCM)
	LI Heng	(HL)	The Hong Kong Polytechnic University
	Vincent YAN	(VYn)	The Education University of Hong Kong
Apologies:	HUI Siu-wai	(SWH)	
	Lawrence NG	(LN)	
	WONG Nai-keung, Philco	(NKW)	
	WONG Sze-chun	(SCW)	
	Joel CHAN	(CSC)	Hong Kong Institute of Architects (HKIA)
	LAU Chi-kin	(CKiL)	Chairperson of Task Force on Safety of Bamboo Scaffolds (TF-SBS)
	Francis WONG	(FW)	Chairperson of Task Force on Site Housekeeping (TF-SHK)

PROGRESS REPORT

Action

4.1 Confirmation of the Progress Report of the Com-CSY Meeting No. 003/16 held on 14 September 2016

Members took note of Progress Report CIC/CSY/R/003/16 and confirmed the Progress Report of the last meeting held on 14 September 2016.

4.2 Matters Arising from the Previous Meeting

Agenda item 3.4 Details were reported under Agenda Item 4.3 (to follow up the research project “Pilot Medical Examination Scheme for Construction Workers”).

Agenda item 3.5 Research and Development Team would discuss with the researcher on feasibility of carrying out further study of the research project “Gyroscopic Stabilizers for Construction Cranes and Gondolas”. AnTg/ JsW

4.3 Application for CIC Research Fund – Health Profiling of Construction Workers in Hong Kong

Vyn, the Education University of Hong Kong, gave a presentation on the research project “Health Profiling of Construction Workers in Hong Kong”.

This 2-year research project extends from the solid ground work derived from the study of the “Pilot Medical Examination Scheme for Construction Workers” (MES) to a large scale, industry-wide study. It aims to expand the health profiling of construction workers with more in-depth health assessment. The field studies include medical examinations and health data collection with at least 1,000 construction workers.

After deliberations, some Members concerned the assessment of psychological health and responsible organisations to follow-up. Some Members suggested analyse the data by trades and enlarge sample size. AaY suggested including a question of Qigong in questionnaire as the Development Bureau and CIC promoted it in Construction Safety Week during past years.

Research and Development Team would further discuss the above concerns and suggestions with the applicant. Members agreed to make a decision on this application until presentation on final report of MES and revised proposal of this research project in the next Com-CSY meeting. AnTg/ JsW

4.4 **Research Topic: Waistband Enabled Construction Workers Low Back Health Monitoring System**

HL, the Hong Kong Polytechnic University, gave a presentation on the research project “Waistband Enabled Construction Workers Low Back Health Monitoring System”.

This research project aims to provide scientific method to automatically detect situations and moments in which workers are bearing maximum levels of loads so that preventive actions can be taken to avoid the occurrence of low back pain. It suggests using 2 motion sensors on the helmet and waist respectively to alert construction worker if squatting to maximum time (ie. 9 mins). This project would be completed in September 2017.

After deliberations, it was suggested inviting relevant workers representatives to give advice to the researcher. Research and Development Team would liaise with the researcher on the follow-up. AnTg/ JsW

4.5 **Progress Report on 6 Previously Funded Projects Related to Safety and Health**

AnTg, briefed Members on the paper CIC/CSY/P/024/16 regarding “Progress Report on 6 Previously Funded Projects Related to Safety and Health”.

After deliberations, some Members questioned about the status of the research project “S-Helmet - a Proactive Construction Safety Management System Based on Real-time Localization” as it should be completed on 31 October 2014. JsW explained that further studies are required as the quality of the draft final report is not good enough. AF suggested this research project should be finished after received the final report.

In addition, Research and Development Team would continue to invite researchers of suitable research projects to the Committee for advice. Members agreed that frontline and experienced Members (such as

representative from workers) could give advice on the research direction and implementation of the research projects.

(AnTg and JsW left the meeting at 3:55pm)

(See items 4.10 which was reported before 4.6)

4.6 Progress of the Task Force on Application of Innovative Design to Enhance Construction Safety

SKC briefed Members on the paper CIC/CSY/P/025/16 regarding “Progress of the Task Force on Application of Innovative Design to Enhance Construction Safety (TF-IDS)”.

The Rear RFID Sensing / Alarm System for Vehicles were well-established and it may consider sourcing manufacturers for discussing the possibility of production and implementation in the market. On the other hand, the Safety Belt Engagement Sensing System was not well-established enough for implementation in the market at this stage and it is necessary to explore the concerns from the industries continuously.

Members took note of the progress of the TF-IDS.

4.7 Progress of the Task Force on Application of Innovative Design to Enhance Construction Safety

ILg, the Hong Kong R&D Centre for Logistics and Supply Chain Management Enabling Technologies (LSCM) gave a presentation on the “Progress of the Task Force on Application of Innovative Design to Enhance Construction Safety (TF-IDS)”.

ILg reported that 6 trial runs for the Rear RFID Sensing / Alarm System for Vehicles were conducted in different construction sites. One local company was interested in commercialisation. For the Safety Belt Engagement Sensing System, 5 trial runs were conducted for different platforms in shopping malls, construction sites and residential area. LSCM was working with three local safety equipment suppliers on the modification of three different types of fall protection system. Moreover, implementation of this System must be fulfilled the standard of EN358 and EN361 by Labour Department (LD).

After deliberations, Members were reminded that it was a supplementary System only and users cannot rely on it and it cannot be

replaced by safety operation.

Members took note of the progress of the TF-IDS.

(SYYu and SKC left the meeting at 4:37pm)

4.8 Progress of the Task Force on Work Safety of Repair, Maintenance, Alterations and Additions (RMAA) Sites

WHWu, Chairperson of the Task Force on Work Safety of Repair, Maintenance, Alterations and Additions (RMAA) Sites (TF-RMA) briefed Members on the paper CIC/CSY/P/026/16 regarding the “Progress of the TF-RMA”.

The first meeting of the restructured TF-RMA was held on 23 November 2016. TF Members discussed safe access and facilities for inspection and repair of external walls of new buildings and suggested following plans for the TF-RMA:

- Review and Revise the Technical Guidelines on the Design, Installation & Maintenance of Cast-in Anchors at External Walls of New Buildings issued by CIC in July 2011.
- Compile a RMAA works safety information kit for property management companies.
- Promote design for safety for repair and maintenance works of external facilities.

After deliberations, Members took note of the progress of the TF-RMA and agreed on the direction of the future plan.

4.9 Progress of the Task Force on Safety of Bamboo Scaffolds

AaY briefed Members on the paper CIC/CSY/P/027/16 regarding “Progress of the Task Force on Safety of Bamboo Scaffolds (TF-SBS)”.

The first Task Force meeting and site visit of closely placed bamboo scaffolding and mixed bamboo and metal scaffolding was held on 24 November 2016. Task Force Members endorsed proposed Terms of Reference and membership list, and agreed to form a working group for reviewing the CIC Guidelines on “Planking Arrangement for Providing Working Platforms on Bamboo Scaffolds”.

Members took note of the progress of the TF-SBS.

4.10 **Construction Safety Poster No. 002/16 – “Lifting Safety”**

AaY briefed Members on the paper CIC/CSY/P/028/16 regarding “Construction Safety Poster No. 002/16 – ‘Lifting Safety’”.

The draft Construction Safety Poster No. 002/16 was sent out to FW, Chairperson of the Task Force on Site Housekeeping (TF-SHK) and Members of the TF-SHK for comment on 16 August 2016.

The revised Poster was then circulated to the Members of the TF-SHK for their further review and comment on 4 November 2016.

After deliberations, Members endorsed in principle the Construction Safety Poster No. 002/16 with some minor amendment.

[**Post Meeting Note:** Final version of the Construction Safety Poster No. 002/16 (renamed as Construction Safety Poster No. 001/17) was formally published on 27 January 2017]

(RNG left the meeting at 4:05pm)

4.11 **Progress of the Road Maintenance Works Safety**

AaY briefed Members on the paper CIC/CSY/P/029/16 regarding “Progress of the Road Maintenance Works Safety”.

With the support and input from the Development Bureau, Highways Department (HyD), Labour Department and Hong Kong Federation of Occupational Safety and Health Associations, the Safety Alert No. 003/16 – Road Maintenance Works Safety was endorsed by the Members of the Com-CSY and was published with related press release on 8 August 2016.

2 sessions of CIC Seminar on Road Maintenance Works Safety with 14 supporting organisations were held at ZCB on 29 August 2016. Over 500 people registered the Seminars.

A press release was issued by the CIC on 26 October 2016. In the press release, relevant government departments have expressed what they would follow up in both short term and long term while other representatives from industrial stakeholder made recommendations on the enhancement of road safety measures.

On 1 November 2016, Highways Department (HyD) issued a press release on the implementation of measures to enhancing safety

protection of workers under the HyD's road works at the earliest opportunity.

After deliberations, WMC reported that the “Code of Practice of the Lighting, Signing and Guarding of Road Works” by HyD was under reviewed and targeted to be published an updated version in year 2017. DnLg reported that a CIC Seminar on Roadwork Safety would be held on 19 Jan 2017 at CIC Resource Centre for frontline workers.

Members took note of the progress of the road maintenance works safety.

4.12 Fatalities of Construction Industry in 2015

WHWu briefed Members on the paper CIC/CSY/P/030/16 regarding “Fatalities of Construction Industry in 2015”.

WHWu reported that 19 fatal industrial accidents in the construction industry in 2015, including 9 from fall of person from height, 3 from struck by falling object, 3 from contact with electricity or electric discharge, and 4 from trapped in or between objects, striking against or struck by moving object, struck by moving vehicle and asphyxiation respectively. The case summary and general precautions in each fatal industrial accident were also reported.

Members took note of the fatalities of construction industry in 2015.

4.13 Tentative Work Plan and Budget for Year 2017

AaY briefed Members on the paper CIC/CSY/P/031/16 regarding “Tentative Work Plan and Budget for Year 2017”.

Members discussed the tentative work plan and budget of the Com-CSY for 2017 and no comments were received in the meeting.

4.14 Tentative Meeting Schedule for Year 2017

AaY briefed Members on the paper CIC/CSY/P/032/16 regarding “Tentative Meeting Schedule for Year 2017”.

Members took note of the tentative meeting schedule for year 2017.

4.15 **Any Other Business**

- (i) **World Congress on Safety & Health at Work 2017**
BYu reported that the World Congress on Safety & Health at Work 2017 would be held on 3-6 September 2017 in Singapore. Com-CSY Chairperson and Members are welcome to join. Com-CSY meeting in September 2017 would be re-scheduled.

- (ii) **Benchmarking Study on Infrastructure Construction Safety in Japan**
BYu reported that OSHC would organise a Benchmarking Study on Infrastructure Construction Safety in Japan from 26 February to 4 March 2017. The 5-day benchmarking includes a series of lectures and site-visits on infrastructure construction work safety, Design for Safety, road maintenance works safety as well as hands-on safety experience training for construction industry. Com-CSY Chairperson and Members are welcome to join.

- (iii) AaY reported that the objectives and Terms of Reference of each Task Force under Com-CSY were tabled for Members' information. Com-CSY Members are welcome to attend any of the Task Forces under Com-CSY if they are interested in it.

[**Post Meeting Note:** LN was interested in the TF-SBS while NCW was interested in the TF-SBS and TF-RMA. They will be in attendance of these Task Forces.]

4.16 **Next Meeting**

2 March 2017 (Thursday) at 2:30 pm at Board Room, 38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon.

[**Post Meeting Note:** The next Com-CSY Meeting No. 001/17 would be re-scheduled on 24 February 2017 (Friday)]

There being no further business, the meeting adjourned at 6:03pm.

CIC Secretariat
February 2017